

MONTHLY WEATHER REVIEW,

NOVEMBER, 1879.

(General Weather Service of the United States.)

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

INTRODUCTION.

In preparing this REVIEW the following data, received up to November 14th, have been used, viz: the regular tri-daily weather charts, containing the data of simultaneous observations taken at 158 Signal Service stations and 12 Canadian stations, as telegraphed to this office; monthly journals and means 147 and 144 respectively, from the former; reports from 29 Sunset stations; 230 monthly registers from Voluntary Observers; 40 monthly registers from United States Army Post Surgeons; Marine Records; International Simultaneous Observations; monthly reports from Voluntary Observers in, and the local Weather Service of, Missouri; reliable newspaper extracts; special reports.

BAROMETRIC PRESSURE.

The general distribution of atmospheric pressure, as reduced to sea-level, is shown by the isobaric lines on Chart No. II. The area of highest pressure was over the South Atlantic States; the pressure was also apparently high off the Central Pacific Coast region.

Departures from Normal Values for the Month.—By comparison with the average of the past seven years, it is found that the barometric pressure during the present November has been above the average in California, New Mexico, the Southwest, Illinois, Michigan and thence eastward to the Atlantic States where the excess has been greatest; it amounts to 0.09 inch at Eastport, Boston and New York, 0.10 at Cape May, Washington, Charleston and Savannah, (and also at Knoxville, Tenn.,) 0.11 at Lynchburgh and Jacksonville and 0.12 at Norfolk, Wilmington and Augusta. A small deficiency occurs over the Northwest which apparently extends to the coast of Oregon; it amounts to 0.07 inch at Omaha, 0.06 at Pembina, 0.03 at Denver and Virginia City, 0.02 at Salt Lake City and 0.05 at Portland, Or.

General Barometric Range.—The general range for the whole country was about 2.00 inches, as may be seen from the following table, which gives the greatest departures of the actual barometric readings, as compared with the normal values for the month and the hour of observation. These departures refer only to the tri-daily telegraphic reports. An examination of the table shows that the greatest departures were + 0.70 at 11:00 p. m. of the 19th, at Bismarck, within the high area No. VIII, and — 1.31 at 3:00 p. m. of the 20th, at Halifax, in low area No. XII.

HIGH AREAS.				LOW AREAS.			
NO.	LOCATION.	DATE.	Departures from normal.	NO.	LOCATION.	DATE.	Departures from normal.
I	Illinois	Nov. 1, 7:00 a. m.	+ 0.44 inch.	I	Kingston	Nov. 3, 7:00 a. m.	— 0.34 inch.
II	Minnesota	Nov. 3, 7:00 a. m.	+ 0.46 inch.	II	Olympia, Or.	Nov. 4, 11:00 p. m.	— 0.34 inch.
III	Washington, D. C.	Nov. 5, 7:00 a. m.	+ 0.48 inch.	III	Pembina	Nov. 7, 7:00 a. m.	— 0.68 inch.
IV	Portland, Oreg.	Nov. 6, 11:00 p. m.	+ 0.30 inch.	IV	Dubuque	Nov. 8, 3:00 p. m.	— 0.54 inch.
V	Lower Lake region	Nov. 10, 3:00 p. m.	+ 0.34 inch.	V	Milwaukee & Escanaba	Nov. 8, 11:00 p. m.	— 0.54 inch.
VI	Halifax, N. S.	Nov. 14, 7:00 a. m.	+ 0.47 inch.	VI	San Francisco	Nov. 9, 3:00 p. m.	— 0.78 inch.
VII	Lynchburg, Va.	Nov. 17, 7:00 a. m.	+ 0.27 inch.	VII	Omaha	Nov. 12, 7:00 a. m.	— 0.55 inch.
VIII	Salt Lake City	Nov. 17, 11:00 p. m.	+ 0.57 inch.	VIII	Olympia	Nov. 11, 7:00 a. m.	— 0.43 inch.
IX	Bismarck	Nov. 19, 11:00 p. m.	+ 0.70 inch.	IX	Parry Sound	Nov. 14, 8:00 p. m.	— 0.64 inch.
X	Pittsburg	Nov. 24, 7:00 a. m.	+ 0.36 inch.	X	Chatham	Nov. 15, 11:00 p. m.	— 0.70 inch.
XI	North Carolina coast	Nov. 24, 11:00 p. m.	+ 0.36 inch.	XI	Olympia	Nov. 13, 3:00 p. m.	— 0.63 inch.
	Halifax	Nov. 27, 7:00 a. m.	+ 0.60 inch.	XII	Northern Texas	Nov. 18, 11:00 p. m.	— 0.27 inch.
	Ohio	Nov. 30, 7:00 a. m.	+ 0.50 inch.		Sydney	Nov. 19, 7:00 a. m.	— 0.22 inch.
	North Carolina coast	Nov. 30, 11:00 p. m.	+ 0.50 inch.		Parry Sound	Nov. 19, 3:00 p. m.	— 0.53 inch.
					Halifax	Nov. 20, 3:00 p. m.	— 1.31 inch.
					Marquette	Nov. 22, 3:00 p. m.	— 0.56 inch.
					Pembina	Nov. 24, 7:00 a. m.	— 0.63 inch.
					Davenport	Nov. 27, 7:00 a. m.	— 0.34 inch.
					Salt Lake City	Nov. 26, 7:00 a. m.	— 0.42 inch.
					Olympia	Nov. 29, 3:00 p. m.	— 0.36 inch.
					Pembina	Nov. 30, 3:00 p. m.	— 0.92 inch.